

## ABSTRACT

System for controlling the transmission power of a base station with which a number of mobile stations are in communication

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The present invention concerns a system for controlling the transmission power of a base station with which a number of mobile stations are in communication, said base station having power command units which receive respectively the signals intended for said mobile stations and power command signals sent by said mobile stations for commanding the contribution of said signal to the transmission power of said base station, and a summer (10) for forming a composite signal from said signals delivered by said power command units.

According to the invention, said system is characterised in that said base station has summation units, the input signals of a given priority level being applied to the inputs of each summation unit which then delivers a sub-composite signal to the input of an attenuation unit whose output is connected to the input of said summer, each attenuation unit being designed to attenuate, by a variable attenuation coefficient, the sub-composite signal at its input when the transmission power of said base station exceeds a predetermined power, said attenuation coefficient being larger the lower the corresponding input signal priority level.

Fig. 3